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REMARKS

The Advisory Action dated September 21, 2007, has been carefully reviewed. Claims 1, 11 and 17 are amended. Claims 1-20 remain in the applications. It is respectfully requested that the Examiner reconsider the rejection of the claims in view of the amendments herein and the following remarks. It is respectfully asserted that the claims are being amended herein to convince the Examiner to withdraw the finality of the rejection and issue an office action on the merits.

In the Advisory Action, the Examiner maintained the rejection of claims 1-10, 12 and 17-20 under 35 U.S.C. § 112, first paragraph as failing to comply with the written description requirement. The Examiner asserted that the claims contain subject matter that was not described in the specification, specifically "scrambling the set of uniformly spaced samples".

The Examiner submits that the samples, after mapping, are scrambled. This is in fact the case. According to the specification, uniformly spaced samples are mapped into set {X} which implies that samples in set {X} will also be uniformly distributed. The set {X} is then scrambled. Therefore, it is respectfully asserted that uniformly spaced samples are scrambled as recited in the claim language. However, Applicants understand the Examiner's concern with the claim language and have amended the claims in attempt to clearly reflect that the numbers are uniformly spaced and are scrambled after mapping. Claims 1, 11 and 17 have been amended accordingly.

The Examiner also maintained the assertion that the limitation in claim 17 directed to "a third component for reducing said total number of samples needed to achieve a given statistical accuracy" is not supported in the specification and that the specification does not disclose the companding function is for reducing the total number of samples as recited in claim 17. Again, Applicants respectfully disagree. Applicants maintain that companding as disclosed in the specification is used to reduce the total number of samples in the set of random numbers. In addition to the sections of the specification pointed out to the Examiner in the response filed September 7, 2007, Applicants respectfully direct the Examiner to the language of paragraph [0010] which also describes the step of companding to provide a sufficient representation of a low-probability area while decreasing the total number of samples **within a given probability area**.

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It is respectfully asserted that the claim language conforms to the specification. Further, paragraph [0025] describes how the companding component reduces the number of samples in an area where a much larger number of experimental samples than required are normally generated, such as a high probability section.. It is respectfully requested the Examiner withdraw the rejection of claims 17-20.

The Examiner rejected claims 1-20 under 35 U.S.C. § 112, second paragraph. The Examiner asserted that "scrambling said set of uniformly spaced samples" as found in claims 1 and 12, appears misdescriptive as not being supported by the specification. It is respectfully asserted that the independent claims have been amended in an attempt to overcome this rejection and more clearly define the random number generation as indicated by the Examiner.

It is respectfully requested the Examiner withdraw the rejection of claims 1-20 under 35 U.S.C. § 112.

The Examiner maintained the rejection of claims 1-20 under 35 U.S.C. § 101 as being directed to non-statutory subject matter. It is respectfully requested the Examiner reconsider the claims of the present invention as a whole in light of the amendments herein. The amended claims include the step of performing a statistical experiment utilizing the random number set generated according to the present invention. It is respectfully asserted that the claims are directed to a step that applies the randomly generated number set of the present invention to a physical object and does not merely present a set of numerical values.

It is respectfully asserted that the computer-based method and system for a random number generator claimed in claims 1-20 of the present invention is statutory subject matter. It is respectfully requested the Examiner withdraw the rejection under 35 U.S.C. § 101.

Applicant would like to direct the Examiner to section 2106 of the MPEP which requires that, whenever practicable, the Examiner should indicate how rejections may be overcome and how problems may be resolved. It is respectfully requested that, should the Examiner remain unconvinced by the amendments herein, that he provide an indication of how the rejections may be overcome to resolve the problem.

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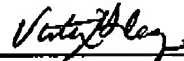
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CONCLUSION

It is respectfully requested the Examiner reconsider the present application in light of the amendments and remarks herein. Should the Examiner remain unconvinced by the remarks herein, he is respectfully requested to contact the undersigned attorney to discuss possible changes to the claims that would be sufficient to bring the claims into condition for allowance.

Should any fees be associated with this submission, the Commissioner is authorized to charge Deposit Account 50-0383 of The DIRECTV Group, Inc.

Respectfully submitted,



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Date: October 9, 2007